

Continued from the front.

III. PROCESSES (continued)

2. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

See Following Page

IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. **ESTIMATED ANNUAL QUANTITY** — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS.....	P	KILOGRAMS.....	K
TONS.....	T	METRIC TONS.....	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. **PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER — Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	included with above

III. Processes (continued)

T02, D84

The 216-B-3 Pond System consists of the 216-B-3-3 Ditch and four interconnected ponds designated 216-B-3, 216-B-3A, 216-B-3B, and 216-B-3C. The pond system receives radioactive and non-radioactive process and cooling water from PUREX Plant, B-Plant, and other 200 Area facilities. Effluent is also received from the PUREX Plant chemical sewer by way of the 216-A-29 Ditch.

Historically, the pond system received corrosive waste as a result of regeneration of the PUREX Plant demineralizer columns (D84). Treatment of the waste occurred by the successive discharge of acidic and caustic waste, which served to neutralize the corrosivity of the waste prior to and upon reaching the pond. Residual corrosivity was neutralized by the calcareous nature of the pond soil (T02).

During peak facility operations, approximately 22,000,000 gallons per day was discharged into the pond system of which the dangerous waste/mixed waste constituted a very small fraction. Administrative and physical system modifications have subsequently been implemented to eliminate further discharge of dangerous waste/mixed waste into the pond system.

The process design capacity listed on page 1 represents the maximum volume of fluid that can be discharged by design to the pond system in a given 24 hour period, rather than the physical capacity of the unit.

Note: Additional waste codes (including listed waste) may be added to this Part A permit application based upon analytical results from the B-Pond waste stream characterization and other studies currently in progress.

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Continued from page 2.

VOTE: Photocopy this page before completing if you have more than 26 wastes to list.

LD. NUMBER (enter from page 1)

W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEAS- URE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D 0 0 2	120,700,000	P	T 0 2 D 8 4	Neutralization/Percolation
2	W T 0 2	2,650,000	P		Included With Above
3	U 1 3 3	1,895,000	P	T 0 2 D 8 4	Neutralization/Percolation
4	W T 0 1	503,000	P	T 0 2 D 8 4	Neutralization/Percolation
5	D 0 0 6	318,000	P		Included With Above
6					
7					
8					
9					
10					
11					
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26					

Continued from the front

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 216-B-3 Pond System routinely received corrosive dangerous waste via the 216-A-29 Ditch. Waste consisted primarily of backwash resulting from the regeneration of demineralizer columns at the PUREX Plant. Additionally, the pond system received spills of dangerous waste/mixed waste from the PUREX Plant.

The quantity of waste specified for waste designated D002/WT02 is an estimated annual quantity of waste. Quantities of waste for wastes designated U133 and WT01/D006 represent the total recorded volume of waste discharged into the pond system since the PUREX plant resumed operations in 1983.

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on attached drawings and photographs

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

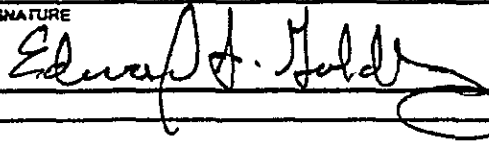
6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type) Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

SIGNATURE



DATE SIGNED

3/21/90

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type)

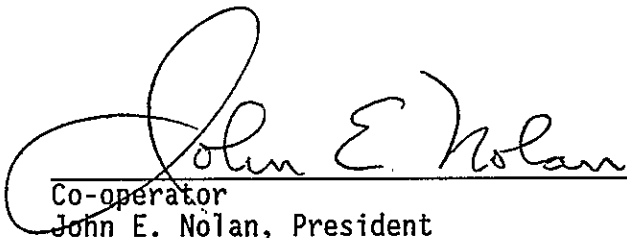
SIGNATURE

DATE SIGNED

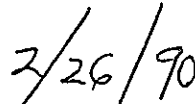
SEE ATTACHMENT

X. OPERATOR CERTIFICATION

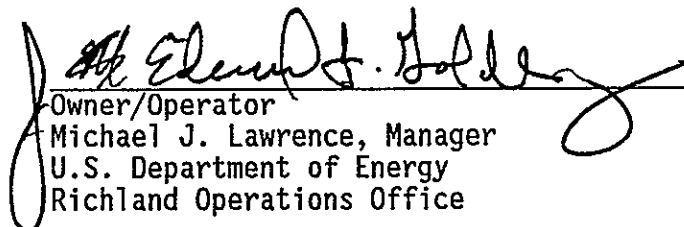
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.




Co-operator
John E. Nolan, President
Westinghouse Hanford Company



Date



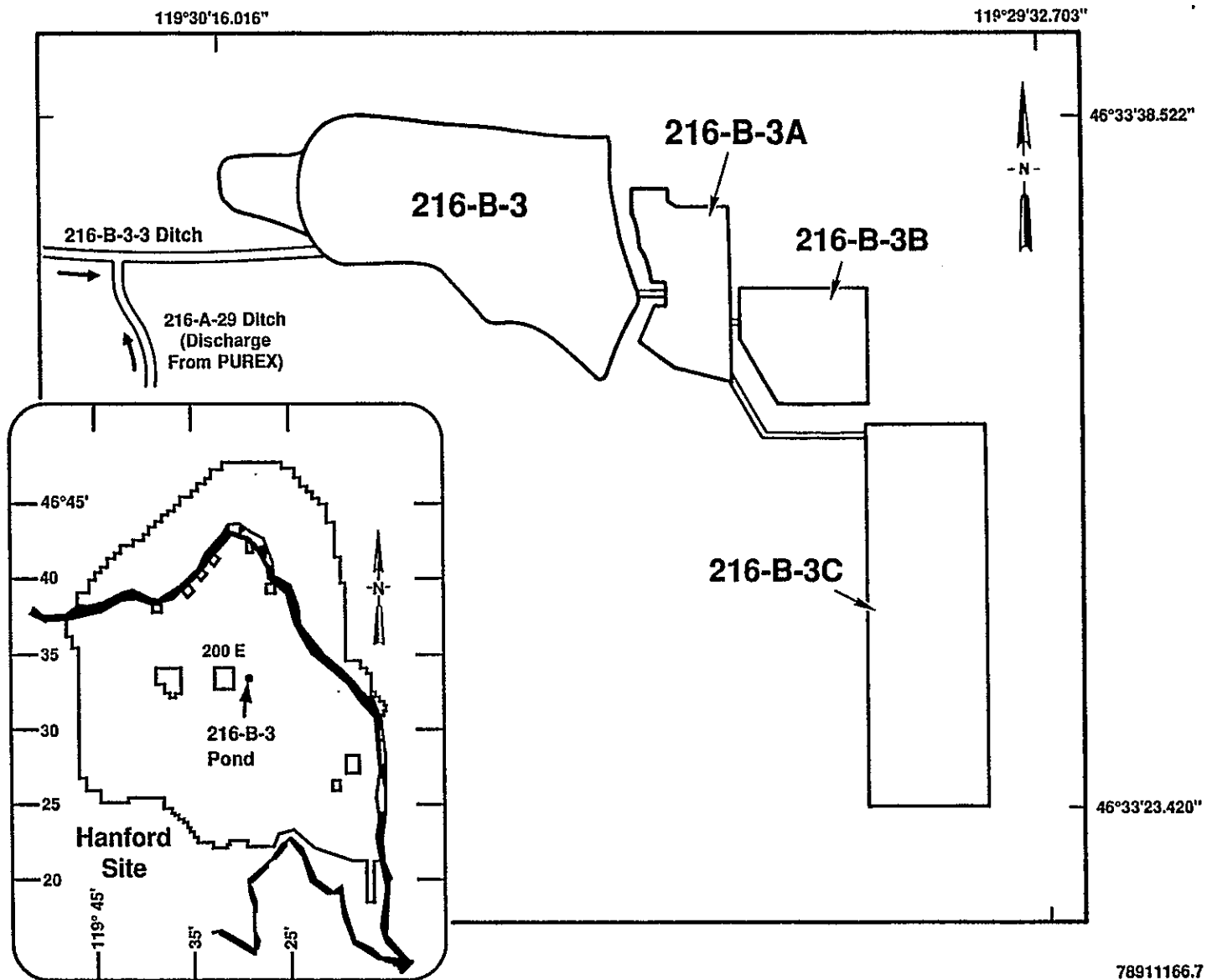
Owner/Operator
Michael J. Lawrence, Manager
U.S. Department of Energy
Richland Operations Office



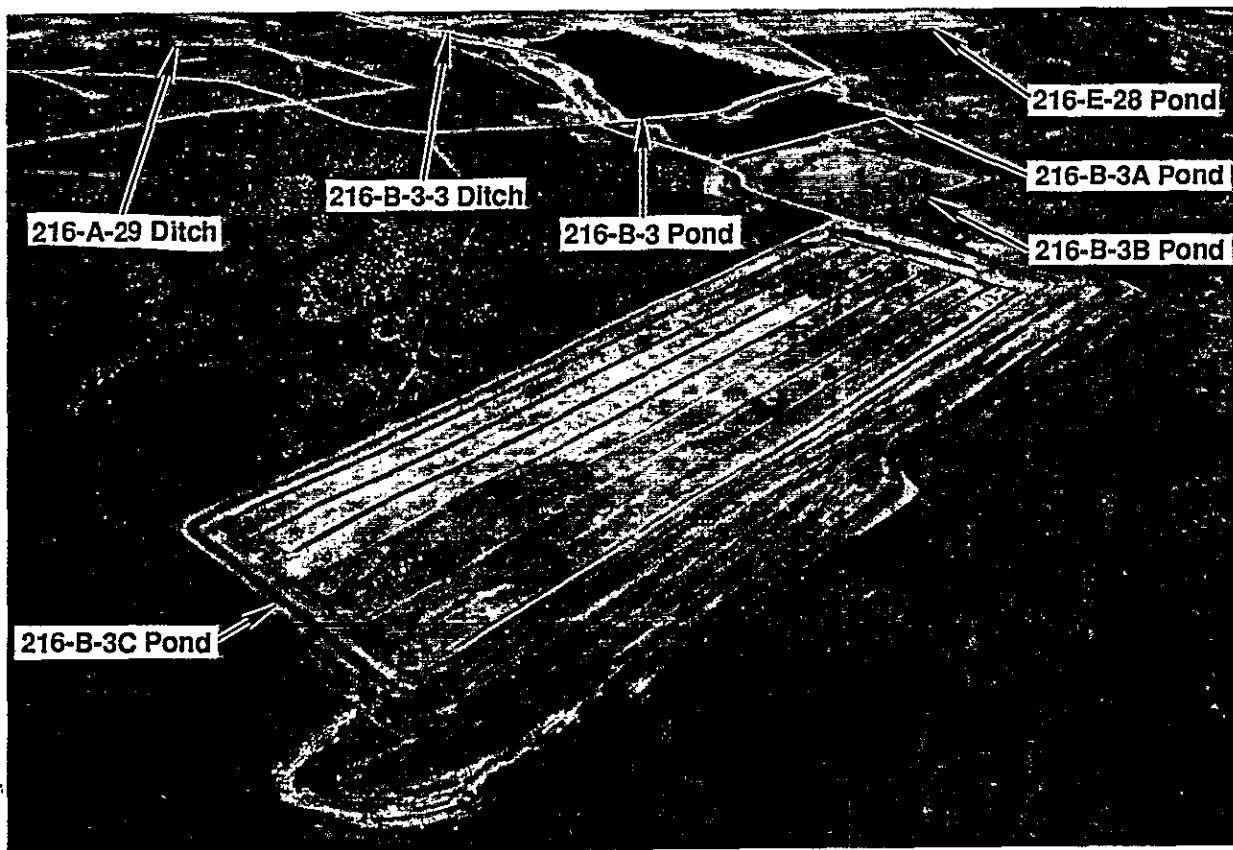
Date

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216-B-3 Pond System



216-B-3 POND SYSTEM



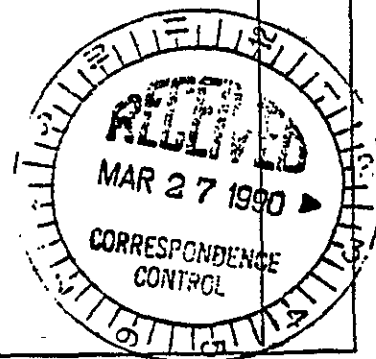
46°33'38.522"
46°33'23.420"
119°30'16.016"
119°29'32.703"

90117870443

DISTRIBUTION COVERSHEET

Part 1 of 2

Author RD Izatt/RE Lerch		Addressee TL Nord/Ecology		Correspondence No. Incoming 9001230
Subject REVISION TO THE HANFORD SITE DANGEROUS WASTE PART A PERMIT APPLICATION (WA7890008967) (D-2-5)				
Internal Distribution				
Approval	Date	Name	Location	w/att
		Correspondence Control		X
		<u>DEFENSE WASTE MANAGEMENT</u>		
		T. D. Blankenship	S5-15	
		G. T. Berlin	S5-15	
		H. F. Daugherty	R2-53	
		D. B. Erb	R1-51	
		J. W. Stiffler	R1-62	
		D. D. Wodrich	R2-23	
		<u>ENVIORNMENTAL DIVISION</u>		
		J. W. Baden	B2-15	
		J. R. Bellomy	H4-57	
		R. C. Bowman	H4-57	
		L. C. Brown	H4-51	
		G. D. Carpenter	H4-15	
		L. D. Diediker	T1-30	
		W. T. Dixon	B2-35	
		J. J. Dorian	H4-15	
		L. A. Garner	B2-19	
		C. J. Geier	H4-57	
		V. W. Hall	B2-15	
		R. J. Landon	B2-19	
		R. E. Lerch (Assignee)	B2-35	
		H. E. McGuire	B2-35	
		S. M. Price	H4-57	
		F. A. Ruck III	H4-57	
		S. A. Wiegman	B2-19	
		J. G. Woolard	H4-57	
		<u>SAFETY/QUALITY ASSURANCE</u>		
		J. W. Hagan	R2-30	
		D. H. Jones	H4-16	
		K. R. Jordan	R2-56	
		P. R. Praetorius	S1-56	

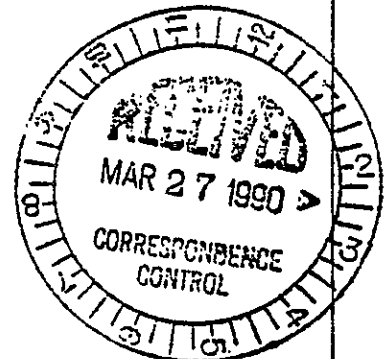


DISTRIBUTION COVERSHEET

Part 2 of 2

Author RD Izatt/RE Lerch	Addressee TL Nord/Ecology	Correspondence No. Incoming 9001230
Subject REVISION TO THE HANFORD SITE DANGEROUS WASTE PART A PERMIT APPLICATION (WA7890008967) (D-2-5)		

Internal Distribution					
Approval	Date	Name	Location		w/att
		Correspondence Control			X
		<u>LEGAL</u>			
		J. D. Bauer	B3-15		
		K. L. Hoewing	B3-06		
		cc: R. J. Bliss	B3-04		
		R. C. Nichols	B3-02		
		J. E. Nolan	B3-01		
		D. E. Simpson	B3-51		
		EDMC	H4-22		
		JRB: File/LB	H4-57		X
		Attachments same as letter #9050884			



90117370443